## Appendix E: Credit Per Acre for Primary Restoration Only

		BASE UNIT COST	INFLATION		
OST ELEMENT	UNIT	(I)	(2)	FINAL UNIT COST	SOURCE
- Company of the production of			-Accessor and a processing		
APITAL COSTS		\$		,	
Restoration of Capped Chat, tailings, and vegetated chat					
Deep tilling	acre	\$1,720.00	1.12	\$1,919,92	Jasper County OU-1 ROD, Sep 2004
Biosolids (100 tons/acre)	acre	\$3,000.00	1.12	\$3,348,70	Jasper County OU-1 ROD, Sep 2004
Carbon-rich organic amendment (50 tons/acre)	acre	\$1,500.00	1.12	\$1,674.35	Jasper County OU-1 ROD, Sep 2004
Lime (25 tons/acre)	acre	\$318,75	1.12	\$355,80	Jasper County OU-1 ROD, Sep 2004
Revegetation (native grass and mulch)	acre	\$1,285,00	1.12	\$1,434.36	Jasper County OU-1 ROD, Sep 2004
Total	acre			\$7,298.77	
Restoration of Other Areas (transition zone soils and excavate	d areas)				
Tilling	acre	\$610.00	1,12	\$680.90	Jasper County OU-1 ROD, Sep 2004
Biosolids (50 tons/acre)	acre	\$1,500.00	1,12		Jasper County OU-1 ROD, Sep 2004
Carbon-rich organic amendment (25 lons/acre)	acre	\$750.00	1.12		Jasper County OU-1 ROD, Sep 2004
Lime (12.5 tons/acre)	acre	\$159.38	1.12	\$177,90	Jasper County OU-1 ROD, Sep 2004
Revegetation (native grass and mulch)	acre -	\$1,285.00	1,12		Jasper County OU-1 ROD, Sep 2004
Total	acre .			\$4,804.69	
	ļ			,	
Indirect Costs	4			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Mobilization, Demobilization, and Site Prep	of capital costs	1.5%	NA		Tar Creek OU-4 Draft FS, Feb 2006
Landowner agreements	of capital costs	1.0%	NA.	1.0%	Tar Creek OU-4 Draft FS, Feb 2006
Contingency	of capital costs	20.0%	NA NA	20.0%	USEPA FS Cost Estimating Guidance, July 2000
Restoration design	of capital costs	6.0%	NA NA	6.0%	USEPA FS Cost Estimating Guidance, July 2000
Construction management	of capital costs	6,0%	NA	6.0%	USEPA FS Cost Estimating Guidance, July 2000
Total Indirect Percentage	of capital costs	34.5%	NA NA	34.5%	
				,	
VERSIGHT COSTS					
	<u> </u>			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Personnel Costs for 4 years during restoration	acre	\$140.00	1.12	\$156,80	See Note 3
Total	acre		-	\$156.80	
0 YEAR MONITORING AND MAINTENANCE (M&M) COSTS					
Vegetation Management	acre x 10 years	\$450.00	1.12	\$504,00	
Monitoring and Maintenance Personnel Costs	acre	\$462,00	1,12	<b>\$517.44</b>	
Contingency	of M&M costs	20.0%	NA		USEPA FS Cost Estimating Guidance, July 2000
Total	acre	L		\$1,225.73	
OTAL PRIMARY TERRESTRIAL RESTORATION CREDIT					
Restoration of Chat, Vegetated Chat, and Tallings	acre			\$11,199	
Includes indirect costs, oversight costs, and M&M					
				\$7 0 A E	
Restoration of T-zone and Excavated Areas	acre			\$7,845	
Includes indirect costs, oversight costs, and M&M	<del> </del>	<b></b>			
DADLAN ACCORDED DECTOR - COSTO	<del> </del>	<b> </b>			
IPARIAN CORRIDOR RESTORATION COSTS	<del> </del>				**************************************
Markovitan of a sold as the sold as the sold as the sold as	<del> </del>	ļ			
Restoration of corridors injured during remediation	<u> </u>	}		AHAT 22	
Bareroot Tree Planting	acre	\$703.00	1.12	\$787.36	
Fencing	acre	\$1,744.00	1.12	\$1,953.28	
Y-L-1	1	ļ		\$2,741	
Total	acre .			<b>₹2,141</b>	

## Notes:

(1) As obtained from source documents.

(2) Base unit costs inflated from year of source document to 2007 dollars using Construction Cost Indices (CCI) obtained from Engineering News-Record.

May 2007 CCI is 7942.00 (as viewed at http://www.enr.com/features/coneco/subs/recentindexes.asp). 7942.00 2002 CCI 2003 CCI 6538.00 6694.00 1.19 2004 CCI 1.12 7115.00
(3) Data derived from personal communication with Ms. Becky Clearwater, USFWS, based on 4 years of 0.75 FTE at the GS-11 salary level.